

#2 2123 +v-12/13/01 PATENT 5181-84400/P5958

THE UNITED STATES PATENT AND TRADEMARK OFFICE

| In re A                                                                                                                                                            | Applicat<br>Smith                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                          | § § §                                    | Group Art Unit: 2123 Examiner: Unknown Atty. Dkt. No. 5181-84400                                                                                                                                                                    | 1 2 |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------------------------|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--|--|--|
| Serial                                                                                                                                                             | No. 09/                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 841,912  | 2                        | §<br>§                                   | Atty. Dkt. No. 5181-84400                                                                                                                                                                                                           | 3   |  |  |  |
| Filed: April 24, 2001  For: SYSTEM AND METHOD FOR DETERMINING THE REQUIRED DECOUPLING CAPACITORS FOR A POWER DISTRIBUTION SYSTEM USING AN IMPROVED CAPACITOR MODEL |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                          | 3 60 60 60 60 60 60 60 60 60 60 60 60 60 | I hereby certify that this correspondence is being deposited with the U.S. Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231, on the date indicated below: |     |  |  |  |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | INFORMATION DI           | SCLC                                     | SURE STATEMENT                                                                                                                                                                                                                      |     |  |  |  |
|                                                                                                                                                                    | ant Com<br>ngton, I                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          | ner for Patents<br>231   |                                          |                                                                                                                                                                                                                                     | ,   |  |  |  |
| Sir:                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                          |                                          |                                                                                                                                                                                                                                     | /   |  |  |  |
|                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | _        |                          |                                          | references listed on the attached Form PTO-                                                                                                                                                                                         |     |  |  |  |
| 1449 a                                                                                                                                                             | nd/or [                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ∑ the    | additional information   | ident                                    | ified below in paragraph 3. A copy of each                                                                                                                                                                                          |     |  |  |  |
| refere                                                                                                                                                             | nce liste                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | d on the | e Form PTO-1449 is encl  | losed.                                   |                                                                                                                                                                                                                                     |     |  |  |  |
| 1.                                                                                                                                                                 | This Ir                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ıformat  | ion Disclosure Statemen  | ıt is sı                                 | ıbmitted:                                                                                                                                                                                                                           |     |  |  |  |
|                                                                                                                                                                    | <ul> <li>a.  within 3 months of the filing date of a national application other than a continued prosecution application under § 1.53(d);</li> <li>within 3 months of the date of entry of the national stage as set forth in § 1.491 in an International application;</li> <li>before the mailing date of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.</li> </ul> |          |                          |                                          |                                                                                                                                                                                                                                     |     |  |  |  |
|                                                                                                                                                                    | b.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          | final Office Action or l | Notice                                   | ragraph 1a and prior to the mailing date of a e of Allowance, and thus:   the certification vided, or a fee of \$180.00 is enclosed.                                                                                                |     |  |  |  |

|    | c.                                                                            | after the mailing date of a final Office Action or a Notice of Allowance and prior to payment of the issue fee, and thus: the certification of paragraph 2 below is provided and a fee of \$180.00 is enclosed.                                                                                                                                                                              |  |  |  |  |  |
|----|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| 2. | It is hereby certified:                                                       |                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |
|    |                                                                               | that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the Statement, or                                                                                                                                          |  |  |  |  |  |
|    |                                                                               | that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in § 1.56 (c) more than three months prior to the filing of the Statement. |  |  |  |  |  |
| 3. | $\boxtimes$                                                                   | Consideration of the following additional information (including any co-pending or abandoned U.S. applications, prior uses and/or sales, etc.) is requested:                                                                                                                                                                                                                                 |  |  |  |  |  |
|    |                                                                               | SN 09/099,547 entitled "System and Method for Determining the Desired Decoupling Components for Power Distribution Systems using a Computer System" (5181-14300);                                                                                                                                                                                                                            |  |  |  |  |  |
|    |                                                                               | SN 09/099,548 entitled "Method for Determining the Desired Decoupling Components for Power Distribution Systems" (5181-14200); and                                                                                                                                                                                                                                                           |  |  |  |  |  |
|    |                                                                               | SN 09/809,837 entitled "Method and Apparatus for Distributing Power to Integrated Circuits" (5181-71401)                                                                                                                                                                                                                                                                                     |  |  |  |  |  |
| 4. | For each non-English language reference listed on the attached Form PTO-1449: |                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |
|    |                                                                               | reference is made to an English language translation submitted herewith, and/or                                                                                                                                                                                                                                                                                                              |  |  |  |  |  |
|    |                                                                               | reference is made to a foreign patent office search report (in the English language) submitted herewith, and/or                                                                                                                                                                                                                                                                              |  |  |  |  |  |
|    |                                                                               | reference is made to an English language translation of a foreign patent office search report submitted herewith, and/or                                                                                                                                                                                                                                                                     |  |  |  |  |  |
|    |                                                                               | reference is made to the concise explanation contained in the specification of the present application at page(s), and/or                                                                                                                                                                                                                                                                    |  |  |  |  |  |
|    |                                                                               | reference is made to the concise explanation set forth below:                                                                                                                                                                                                                                                                                                                                |  |  |  |  |  |
| 5. |                                                                               | Applicant also offers the following comments for the Examiner's consideration:                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |



| 6.           |         | Also enclosed is a copy of a foreign search report citing these references.                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.           |         | The listed documents were brought to the attention of the Applicant(s) after payment of the issue fee in the captioned case. The documents were cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. Applicant(s) request this Information Disclosure Statement and attached Form PTO-1449 be placed in the file of the captioned application. |
| 8.           |         | Applicant(s) requests that the Information Disclosure Statement and attached Form PTO-1449 and references, which are being filed before the grant of the patent and pursuant to 37 C.F.R. § 1.97(i), be placed in the file of the captioned application.                                                                                                                                                                                                                      |
|              | If any  | required fees are missing, the Commissioner is authorized to charge said fees to                                                                                                                                                                                                                                                                                                                                                                                              |
| Conle        | y, Rose | & Tayon, P.C. Deposit Account No. 50-1505/5181-84400.                                                                                                                                                                                                                                                                                                                                                                                                                         |
|              |         | Respectfully submitted,                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|              |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|              |         | B. Noël Kivlin<br>Reg. No. 33,929<br>Attorney for Applicant(s)                                                                                                                                                                                                                                                                                                                                                                                                                |
| P. O. Austin | Box 398 | s 78767                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| (212)        | 4/0-140 | JU                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Form PTO-1449 (moglified)

Form PTO-1449 (modified)
List of Patents and Publications

For Applicant's Information
Disclosure Statement

ATTY. DKT. NO. 5181-84400

SERIAL NO. 09/841,912

APPLICANT: Smith et al.

GROUP: 2123

| Disclosure Statement<br>(Use several sheets if necessary) |              |                                                                                                                     | FILING DA       | ΓΕ: April 24, 2001        |               |              |                               |  |  |
|-----------------------------------------------------------|--------------|---------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------|--------------|-------------------------------|--|--|
|                                                           |              | U.                                                                                                                  |                 | OOCUMENTS                 | <b>'</b>      |              |                               |  |  |
| EXAM.<br>INITIALS                                         | REF.<br>DES. | DOCUMENT NUMBER                                                                                                     | DATE            | NAME                      | CLASS         | SUB<br>CLASS | FILING DATE IF<br>APPROPRIATE |  |  |
|                                                           | A1           | 5,883,814                                                                                                           | 3/1999          | Luk et al.                |               |              | 05 CX                         |  |  |
|                                                           | A2           | 6,252,760                                                                                                           | 6/2001          | Sen                       |               | Q'è          | 0 14                          |  |  |
|                                                           |              |                                                                                                                     |                 |                           |               |              | FILING DATE IF APPROPRIATE    |  |  |
|                                                           |              |                                                                                                                     |                 |                           |               |              |                               |  |  |
|                                                           |              |                                                                                                                     | 7 - 3 - A)      |                           |               |              |                               |  |  |
|                                                           |              |                                                                                                                     |                 |                           |               |              |                               |  |  |
|                                                           |              | FORE                                                                                                                | EIGN PATEN      | IT DOCUMENTS              |               |              |                               |  |  |
| EXAM.<br>INITIALS                                         | REF.<br>DES. | DOCUMENT NUMBER                                                                                                     | DATE            | COUNTRY                   | CLASS         | SUB<br>CLASS | TRANSLATION<br>YES/NO         |  |  |
|                                                           |              |                                                                                                                     |                 |                           |               |              |                               |  |  |
|                                                           |              | OTHER ART (In                                                                                                       | cluding Author  | , Title, Date, Pertinent  | Pages, Etc.)  | )            |                               |  |  |
|                                                           | A3           | Hubing, "Power Bus Dece                                                                                             | oupling on Mult | ilayer Printed Circuit Bo | ards," May    | 1995, pp. 1  | 55-166.                       |  |  |
|                                                           | A4           | A4 Chen et al., "On-Chip Decoupling Capacitor Optimization for High-Performance VLSI Design," May 1995, pp. 99-103. |                 |                           |               |              |                               |  |  |
|                                                           | A5           | Drewniak, "Modeling Pop. 456-461.                                                                                   | wer Bus Decoup  | ling on Multilayer Printe | ed Circuit Bo | oards," Au   | gust 1994,                    |  |  |
|                                                           |              |                                                                                                                     |                 |                           |               |              |                               |  |  |

| FΧ | Δ1 | МT | NI | FR |  |
|----|----|----|----|----|--|

DATE CONSIDERED:

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.